Madison Cable Corporation

May 4, 1993

NCR Corporation 1635 Aeroplaza Drive Colorado Springs, CO 80916

Attention: Larry Barnes, Senior Principal Systems Engineer Microperipheral; I/O Products

Dear Larry,

As we discussed, the recommendations of the SCSI committee have been incorporated into the PCMCIA-SCSI cable design. Attached is a new Madison specification (spec #4612). As recommended by the SCSI committee the REQ and ACK pairs have been isolated in a shield by themselves and TERM POWER has been changed to one 28 AWG wire rather than two 30 AWG wires.

If you have any questions, please contact me.

Sincerely,

Chuck Grant

Product Engineering Manager

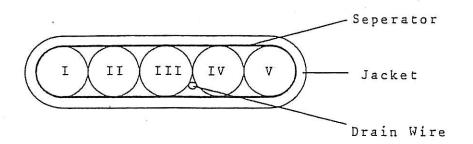
CG/sh

cc: R. Bellino

- R. Crouch
- C. Fry, Todd & Fry
- J. Mahall
- B. White

SPECIFICATION

Туре	For	Number 4612	
	31 Conductor 30 AWG Parallel Cable	Issue 1	
	For PCMCIA-SCSI Applications	Date 5/4/93	



Construction

Component A (REQ and ACK Pairs):

Conductor: 30 AWG 7/38 Tin Plated Copper, 0.012 Inch Diameter

0.0115 Inches Foam Polypropylene, 0.035 Inch Insulation:

Diameter

2 Insulated Conductors Twisted Together Pair:

Component B (Data Pairs):

Conductor: 30 AWG 7/38 Tin Plated Copper, 0.012 Inch Diameter Insulation: 0.010 Inches Foam Polypropylene, 0.032 Inch Diameter

2 Insulated Conductors Twisted Together

Component C (Control Wires):

Conductor: 30 AWG 7/38 Tin Plated Copper, 0.012 Inch Diameter Insulation: 0.0095 Inches Polypropylene, 0.031 Inch Diameter

Component D (TERM POWER):

Conductor: 28 AWG 7/36 Tin Plated Copper, 0.015 Inch Diameter Insulation: 0.008 Inches Polypropylene, 0.031 Inch Diameter

Group I:

2 Component A (Pair #1-2) and Fibrillated Polypropylene Core:

Filler Twisted Together

Aluminum/Polyester Tape Spirally Applied, Aluminum Side

Facing Out, 25% Overlap

Grant P Prepared by: Approved by: Grant

Madison Cable Corporation

1/3

Page

SPECIFICATION

Туре	For	Number 4612	
	31 Conductor 30 AWG Parallel Cable	Issue 1	
	For PCMCIA-SCSI Applications	Date 5/4/93	

Group II:

3 Component B (Pair #3-5) Twisted Together Core:

Aluminum/Polyester Tape Spirally Applied, Aluminum Side

Facing Out, 25% Overlap

Group III:

Core: 3 Component B (Pair #6-8) Twisted Together

Aluminum/Polyester Tape Spirally Applied, Aluminum Side Shield:

Facing Out, 25% Overlap

Group IV:

3 Component B (Pair #9-11) Twisted Together Core:

Aluminum/Polyester Tape Spirally Applied, Aluminum Side

Facing Out, 25% Overlap

Group V:

8 Component C (Single #1-8) and 1 Component D (Single #9) Core:

Twisted Together

Aluminum/Polyester Tape Spirally Applied, Aluminum Side

Facing Out, 25% Overlap

Group I, Group II, Group III, Group IV and Group V In Cable:

Parallel

26 AWG 7/34 Tin Plated Copper, 0.019 Inch Diameter Drain Wire:

the Drain Wire and the Shields on all 5 Groups are

Electrically Common

Paper Tape (Optional)

0.022 Inches Flexible PVC, Color - Black, Finish - Matte Jacket:

Major - 0.625 Inches Nominal Diameter:

Minor - 0.165 Inches Nominal, 0.175 Inches Maximum

(Insulation Color/Tracer Color) Color Code:

Pair #	Component Type	Conductor #1	Conductor #2
1	A	White/Tan	Tan/White
2	À	White/Brown	Brown/White
3	В	White/Pink	Pink/White
4	В	White/Orange	Orange/White
5	В	White/Yellow	Yellow/White
6	В	White/Green	Green/White
7	В	White/Blue	Blue/White
. 8	В	White/Violet	Violet/White
9	В	White/Gray	Gray/White
10	В	Tan/Brown	Brown/Tan
11	В	Tan/Pink	Pink/Tan

Grant Prepared by: C. Grant (C.

Madison Cable Corporation

2/3

Approved by:

Page

SPECIFICATION

Туре		For	Numb	er 4612
	31 Condu	ctor 30 AWG Parallel Cabl	e Issue	1 '
	For	PCMCIA-SCSI Applications	Date	5/4/93
Single # C	omponent Type	Color		
1	C	Tan/Orange		8
. 2	C	Orange/Tan		
3	C	Tan/Yellow		
4	C	Yellow/Tan		0.20
5	C	Tan/Green		N N
. 6	С	Green/Tan		
7	C ·	Tan/Blue;		(68)
. 8	С	Blue/Tan		

Tan/Violet

Electrical Characteristics

Impedance:

130 Ohms Nominal Differential (TDR): Single Ended (TDR): 80 Ohms Nominal

Capacitance:

Mutual (Differential): 11 pF/ft Nominal

Single Ended: 18 pF/ft Nominal Time Delay: 1.41 ns/ft Nominal

D

Conductor DC Resistance: 0.10 Ohms/ft Nominal

Safety Certification

Type CL2X as Specified in Article 725 of the National UL Listing:

Electrical Code

CSA Certification: AWM II A/B 80C, 150 Volts, FT1

Page